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Barristers & Solicitors

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March 8, 1976.

Mr. Ian Scott, Q.C.,
Commission Counsel,
Messrs. Cameron, Brewin & Scott,
Barristers and Solicitors,
121 Richmond Street West,
Suite 1201,
Toronto, Ontario,
M5H 2K9.

Dear Sir:

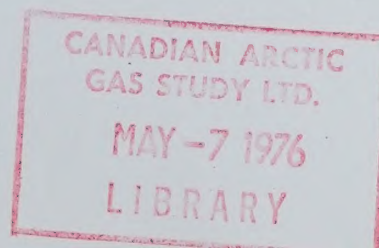
Re: CAGPL Plan Refinements.

With respect to the plan for Canada North of 60°, Arctic Gas has considered possible modifications to accommodate environmental and socio-economic concerns raised to date before the Inquiry, changes in the Government of Canada's plans for highway construction and changes to staging facilities in the Hay River area. My purpose in writing you is to set out these changes so that you and the participants will have an opportunity to consider them in advance of Phase IV' of the Inquiry.

A. ENVIRONMENTAL CONSIDERATIONS.

Compressor Station CD-08 Mackenzie River Delta.

Concern was expressed by Dr. W. Gunn as to the location originally selected for Station CD-08. At his suggestion a new location was examined and a decision was made to relocate the station 1.4 miles to the west. The plan was amended as part of the Consolidation Filing to reflect this. While Dr. Gunn preferred this new location, his general concern relating to the location of processing plants or compressor stations within the Delta remained. His views appear to be shared by Dr. Tom Barry of the Canadian Wildlife Service. Accordingly a review was undertaken to determine whether or not CD-08 could be removed entirely from the Delta. Although detailed assessment has not been completed,



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Mr. Ian Scott, Q.C.

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March 8, 1976.

work has advanced to the point that Arctic Gas believes that such a move can be made and has decided to relocate CD-08 to Tununuk Junction, 16 miles to the east of its present location.

B. SOCIO-ECONOMIC CONSIDERATIONS.

The question of interaction between construction facilities and communities has been raised a number of times before the Inquiry. Arctic Gas has considered this evidence particularly as it relates to the communities of Fort Good Hope, Norman Wells, Fort Norman, and Wrigley.

On the basis of advice from its socio-economic advisors, Arctic Gas proposes to relocate certain of its facilities in the vicinity of those communities. Particulars of these changes are set out in Appendix "A".

C. NON-COMPLETION OF MACKENZIE HIGHWAY.

At the time Arctic Gas filed its Application it was anticipated that the Mackenzie Highway would be completed to Fort Good Hope. The Government has since announced that highway construction is not presently planned to proceed beyond Wrigley. Without the highway from Wrigley to Fort Good Hope, additional wharves, access roads and airstrips would be required. Particulars of these are set out in Appendix "B".

D. NORTHERN STAGING AREAS

As logistics planning for the project has continued, Arctic Gas has determined that it would be advantageous to alter its plan which proposed logistic facilities at Hay River/Enterprise so as to include a new facility to be constructed at Axe Point, N.W.T. This is the same location proposed for use by Foothills. The site is previously disturbed, having been the location of a transshipment point during World War II. It would be connected to Enterprise by all-weather road which would require the construction of 15 miles of highway from the Mackenzie Highway to Axe Point.

Revised Pipeline Route Maps (5) and a Location Drawing entitled "Proposed Northern Staging Areas Hay River, Enterprise and Axe Point" are attached.

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March 8, 1976.

Mr. Hemstock and Mr. Purcell will be able to answer questions pertaining to item A on March 16th. Mr. Williams will respond to questions as to the location of items B, C and D.

Yours very truly,

John J. Marshall

John J. Marshall

JJM/bm

Enclosures

c.c. Participants



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APPENDIX "A" - SOCIO-ECONOMIC

1. Compressor Station M06 - add 2400' airstrip. Required because strip at Fort Good Hope will not be used.
2. Fort Good Hope - R.M.P. 685 - all facilities have been removed from this site.
3. Norman Wells - R.M.P. 565 - wharf and stockpile site deleted.
4. Fort Norman - R.M.P. 512 - wharf and stockpile site deleted. Use of community airstrip removed from plan.
5. Great Bear River Crossing - wharf, workpad and 2400' airstrip added.
6. Wrigley - the upgrading and use of the community airstrip at Wrigley has been removed from the construction plan. The borrow site at Wrigley will not be required.
7. Compressor Station ME13 - a 2400' airstrip has been added. Consideration will be given to upgrading the existing airstrip near the site.

APPENDIX "B" - MACKENZIE HIGHWAY

1. Beavertail Point - R.M.P. 644 - new wharf and stockpile site planned and 20 miles of all-weather road to station M07.
2. Compressor Station M07 - 2400' airstrip added.
3. Compressor Station M08 - 2400' airstrip added.
4. Compressor Station M09 - wharf site added at R.M.P. 538 and 4 miles of all-weather road from wharf to M09. 2400' airstrip added.
5. Compressor Station M10 - wharf site added at R.M.P. 477 and about 6 miles of all-weather road to M10. 2400' airstrip added at M10.
6. Compressor Station M11 - 3 miles of all-weather road added between R.M.P. 435 and M11.
7. Compressor Station M12 - 2400' airstrip added.



MILE POST	FACILITY DESCRIPTION	LAND USE	
		AREA ACRES	BORROW CU. YD.
250	300-TOTAL SPREAD 'E'	1,825.07	1,474,000
262	PIPELINE RIGHT OF WAY	174.55	
	TOTAL SPREAD 'E'	1,699.52	1,474,000
	CA-06 COMPRESSOR STATION PAD	24.79	320,000
	AIRSTRIP	100.00	270,000
	ROAD	7.27	20,000
251.0	BLOCK VALVE	0.23	2,000
	SHINGLE POINT	35.00	336,000
	CD-07 COMPRESSOR STATION PAD	24.79	320,000
	AIRSTRIP	100.00	270,000
	ROAD	7.27	25,000
329	PIPELINE RIGHT OF WAY	974.54	
	TOTAL SPREAD 'E'	1,273.89	1,570,000
	STOCKPILE WHARF & WORK PAD # 338.2	15.00	240,000
	STOCKPILE WHARF & WORK PAD # 339	15.00	240,000
	WORK PAD & MP 343.3	10.00	160,000
	SHALLOW BAY GRANULAR BACKFILL		340,000
	STOCKPILE WHARF & WORK PADS (2)	20.00	320,000
	MP 354.3	10.00	160,000
	ROAD (3200 FT.)		18,000
	CD-08 COMPRESSOR STATION PAD	24.79	450,000
	ROAD	8.72	30,000
	AIRSTRIP	100.00	432,000
	WORK PADS (2) # MP 367	20.00	320,000
	ROAD (3000 FT.)		20,000
372.37	PIPELINE RIGHT OF WAY	1,521.72	
	TOTAL SPREAD 'E'	1,745.23	2,730,000
	TOTAL PROPOSED TO TUNUNUK JCT.	7,853.24	8,155,000

PROPOSED PIPELINE ROUTE MAP
MP 250 TO MP 372.37
SHINGLE POINT TO TUNUNUK JUNCTION
CROSS DELTA AMENDMENT

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]
PROJ. MANAGER: [Signature]

REVISION: FEBRUARY 27, 1976
DATE: NOVEMBER, 1975
PROJ. NO.: 1811
DRA. NO.: 1K-0251-1001

CANADIAN ARCTIC GAS STUDY LIMITED

THIS MAP HAS BEEN TAKEN FROM ORIGINAL PRINTED BASE MAPS PREPARED AND SUPPLIED BY THE DEPARTMENT OF MINES AND TECHNICAL SURVEYS WHICH THE ARCTIC UNIT HAS SUPERIMPOSED. THESE INSTALLATIONS AND FACILITIES RELEVANT TO THIS APPLICATION.

MAY 1975

SCALE 1:250,000

0 5 10 15 20 25 30

MILES

0 5 10 15 20 25 30

KILOMETRES

LEGEND:

- COMP. STN. & STOCKPILE
- PREFERRED BORROW PIT
- ALTERNATE BORROW PIT
- MATERIAL STOCKPILE
- PIPELINE
- PERMANENT PROJECT ROAD
- PERMANENT ROAD
- TEMPORARY ACCESS SHOW ROAD
- BLOCK VALVE
- AIRSTRIP
- WORK PAD



THIS MAP HAS BEEN TAKEN FROM ORIGINAL PRINTED BASE MAPS PREPARED AND SUPPLIED BY THE DEPARTMENT OF MINES AND TECHNICAL SURVEY WHICH THE APPLICANT HAS SUPERIMPOSED. THESE INSTALLATIONS AND FACILITIES RELEVANT TO THIS APPLICATION.

SCALE 1:250,000

0 5 10 15 20 MILES

0 5 10 15 20 KILOMETRES

MAY 1975

LEGEND

COMP. STN. & STOCKPILE

COMPRESSOR STATION

METER STATION

WHARF

HELIPAD

PREFERRED BORROW PIT

ALTERNATE BORROW PIT

MATERIAL STOCKPILE

PIPELINE

PERMANENT PROJECT ROAD

PERMANENT ROAD

TEMPORARY ACCESS SNOW ROAD

BLOCK VALVE

AIRSTRIIP

WORK PAD

REMOTE TOWER

DESIGNED BY

CHECKED BY

APPROVED BY

PROJECT MANAGER

NORTHERN ENGINEERING SERVICES COMPANY LIMITED

CANADIAN ARCTIC GAS STUDY LIMITED

REVISED FEBRUARY 27, 1976

DATE NOVEMBER, 1975

PROJ. NO. 1811

SHEET NO. 1L-0251-1001

MILE POST	FACILITY DESCRIPTION	LAND USE	
		AREA ACRES	BORROW CU. YD.
0	METER STATION & HELIPAD (NIGLITGAK)	3.67	26,000
28	METER STATION & HELIPAD (TAGLO)	3.67	26,000
19	BLOCK VALVE	0.23	2,000
43.5	MD-01 COMPRESSOR STATION PAD	24.79	250,000
	AIRSTRIIP (6000 FT.)	130.00	1,120,000
	ROAD	29.08	120,000
60	METER STATION & HELIPAD (PARSONS LAKE)	3.67	26,000
	PIPELINE RIGHT OF WAY	1,210.91	
	SUB-TOTAL SPREAD "A"	1,448.02	1,900,000
87	BLOCK VALVE	0.23	2,000
	STOCKPILE - INUVIK	30.00	250,000
	O & M PAD - INUVIK	8.04	104,000
	MD-02 COMPRESSOR STATION	41.32	450,000
108	BLOCK VALVE	2.30	2,000
	P.P. PAD	130.91	500,000
	MD-03 COMPRESSOR STATION	41.32	700,000
	AIRSTRIIP (6000 FT.)	30.00	1,800,000
	ROAD	7.27	30,000
133	PIPELINE RIGHT OF WAY	1,061.81	
	SUB-TOTAL SPREAD "A"	1,613.20	3,946,000
	TOTAL SPREAD "A"	3,061.22	5,746,000

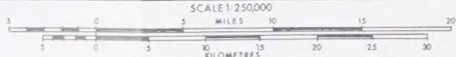
PROPOSED PIPELINE ROUTE MAP
MP-00 TO MP-133
RICHARDS ISLAND TO THUNDER RIVER
CROSS DELTA AMENDMENT



MILE POST	FACILITY DESCRIPTION	LAND USE	
		AREA ACRES	BORROW CU. YD.
190.0	SUB-TOTAL SPREAD "B"	1,146.98	1,368,000
197	BLOCK VALVE	2.30	2,000
209	PIPELINE RIGHT OF WAY	278.36	
	SUB-TOTAL SPREAD "B"	1,425.64	1,368,000
	W-05 COMPRESSOR STATION	41.32	360,000
	AIRSTRIIP	175.00	180,000
	ROAD	29.10	106,000
	RMP 783	125.00	260,000
241	BLOCK VALVE	2.30	2,000
	RMP 710	15.00	145,000
	W-06 COMPRESSOR STATION	41.32	260,000
	ROAD	89.11	23
	AIRSTRIIP	175.00	18
283	PIPELINE RIGHT OF WAY	1,078.36	
	SUB-TOTAL SPREAD "B"	1,649.51	1,751,000
	TOTAL SPREAD "B"	3,075.15	3,119,000
286	BLOCK VALVE	2.30	2,000
	RMP 644	75.00	185,000
	W-07 COMPRESSOR STATION	41.32	320,000
	ROAD	283.50	975,000
	AIRSTRIIP	175.00	180,000
330	PIPELINE RIGHT OF WAY	683.64	
	SUB-TOTAL SPREAD "B"	1,210.76	1,672,000

PROPOSED PIPELINE ROUTE MAP
MP-190 TO MP-330
THUNDER RIVER TO 60th PARALLEL
CROSS DELTA AMENDMENT

THIS MAP HAS BEEN TAKEN FROM ORIGINAL PRINTED BASE MAPS PREPARED AND SUPPLIED BY THE DEPARTMENT OF MINES AND TECHNICAL SURVEYS. THE APPLICANT HAS SUPERIMPOSED THOSE INSTALLATIONS AND FACILITIES RELEVANT TO THIS APPLICATION.
MAY 1975

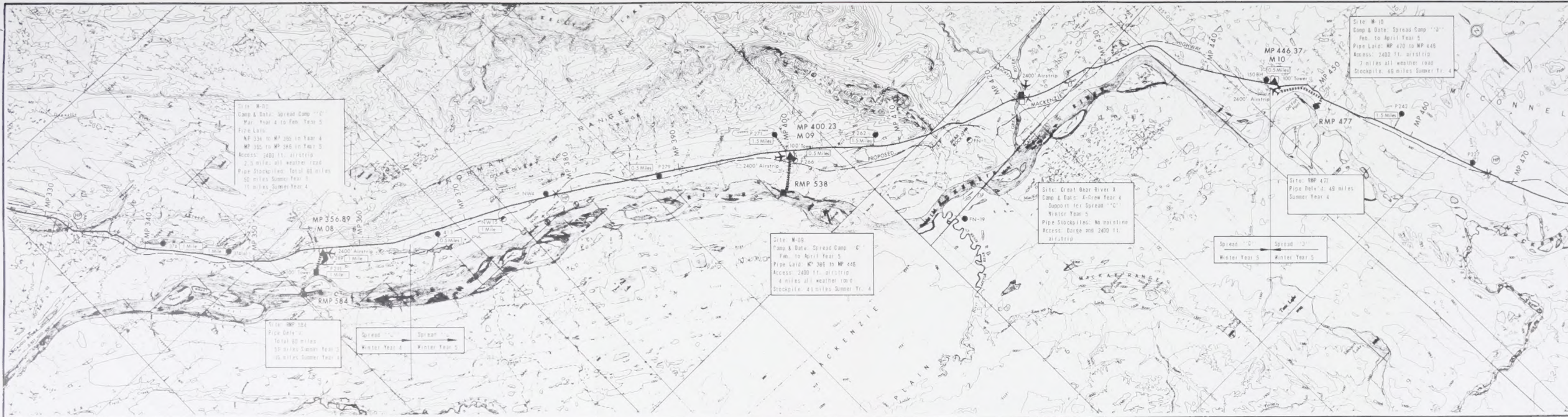


- LEGEND
- COMP. STN. & STOCKPILE
 - COMPRESSOR STATION
 - METER STATION
 - WHAIR
 - HELIPAD
 - PREFERRED BORROW PIT
 - ALTERNATE BORROW PIT
 - MATERIAL STOCKPILE
 - PIPELINE
 - PERMANENT PROJECT ROAD
 - PERMANENT ROAD
 - TEMPORARY ACCESS SNOW ROAD
 - BLOCK VALVE
 - AIRSTRIIP

DESIGNED BY
CHECKED BY
APPROVED BY
PROJ. MANAGER

NORTHWEST ENGINEERING SERVICES
CONSULTANTS LIMITED
CANADIAN ARCTIC GAS STUDY LIMITED

REVISED: 27 FEB 76
DATE: NOV 1975
PROJ. NO.: 16711
DOW. NO.: 18-0251-1006



MILE POST	FACILITY DESCRIPTION	LAND USE	
		AREA ACRES	BORROW CU. YD.
330.0	SUB-TOTAL SPREAD "C"	1,210.78	1,872,000
	BLOCK VALVE	2.30	2,000
	M-09 COMPRESSOR STATION	41.32	380,000
	ROAD	43.65	150,000
	AIRSTRIP	175.00	180,000
	RMP 584	20.00	192,000
365.0	PIPELINE RIGHT OF WAY	509.09	
	SUB-TOTAL SPREAD "C"	2,002.12	2,556,000
	C & M NORMAN WELLS	8.04	78,000
378	BLOCK VALVE	2.30	2,000
	M-09 COMPRESSOR STATION	41.32	380,000
	ROAD	58.18	200,000
	AIRSTRIP	175.00	180,000
	RMP 538	20.00	192,000
423	BLOCK VALVE	2.30	2,000
	GREAT BEAR SITE (INCL. WORK PAD)	15.00	125,000
	ROAD	10.91	38,000
	AIRSTRIP	175.00	220,000
445	PIPELINE RIGHT OF WAY	1,178.18	
	SUB-TOTAL SPREAD "C"	1,886.23	1,317,000
	TOTAL SPREAD "C"	3,888.35	3,873,000
	M-10 COMPRESSOR STATION	41.32	400,000
	ROAD	109.12	375,000
	AIRSTRIP	175.00	180,000
	RMP 477	20.00	192,000
467	BLOCK VALVE	2.30	2,000
470	PIPELINE RIGHT OF WAY	249.09	
	SUB-TOTAL SPREAD "C"	858.83	1,143,000

PROPOSED PIPELINE ROUTE MAP
MP 330 TO MP 470
THUNDER RIVER TO 60th PARALLEL
CROSS DELTA AMENDMENT

THIS MAP HAS BEEN TAKEN FROM ORIGINAL PRINTED BASE MAPS PREPARED AND SUPPLIED BY THE DEPARTMENT OF MINES AND TECHNICAL SURVEYING WHICH THE APPLICANT HAS SUPERIMPOSED THEREON. THESE INSTALLATIONS AND FACILITIES RELEVANT TO THIS APPLICATION.

MAY 1975

SCALE 1:250,000

5 0 5 10 15 20 MILES

5 0 5 10 15 20 25 30 KILOMETRES

LEGEND

- COMP. STN. & STOCKPILE
- COMPRESSOR STATION
- METER STATION
- WHARF
- HELIPAD
- PREFERRED BORROW PIT
- ALTERNATE BORROW PIT
- MATERIAL STOCKPILE
- PIPELINE
- PERMANENT PROJECT ROAD
- PERMANENT ROAD
- TEMPORARY ACCESS SNOW ROAD
- BLOCK VALVE
- AIRSTRIP
- WORKPAD

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

PROJECT MANAGER: [Signature]

REVISIONS

DATE: FEBRUARY 27, 1975

DATE: NOVEMBER 1975

DATE: 1975

PROJECT NO.: 18-0251-1007

CANADIAN ARCTIC GAS STUDY LIMITED

